## Additional file 3: Demographics of the included articles

Citizens with an ethnic minority background (n=13)					
Reference	Country	Aim	Study approach	Study method	Citizens involved
Alcazar et al.	USA	To explore the impact of the Brighter	CBPR	Photovoice	Parents of low-income Spanish-
(2017) [2]		Bites programme from the perspective of low-income Spanish families using photovoice.			speaking families
Belone et al.	USA	To improve the conceptual CBPR	CBPR	Focus groups	African American, American
(2016) [7]		model.			Indian, Asian, Latino, and White
Ceballos et al.	USA	To describe the development of a	Mixed method	Focus groups,	Bilingual/bicultural Latinos
(2015) [20]		culturally appropriate support group	study	interviews,	
		and to report on the feasibility of		questionnaires	
		implementation and preliminary			
		outcomes.			
DeCamp et al.	USA	To describe the process of establishing	Multimodal	Observations, member	Low-income Latino families with
(2015) [27]		a family advisory board composed of	evaluation of	check-ins, group	limited English proficiency
		Latino families at a paediatric primary	advisory board	reflection session, and	
		care clinic, with a focus on initial		semi-structured	
		partnership development and the		interviews	
		experiences of family members on the			
		board.			
De Marco et	USA	To describe the process of establishing	CBPR	Gardening	Visitors to a Black church
al. (2014) [26]		a relationship between a research			
		university and a Black church in rural			
		North Carolina.			
Haynes-	USA	To explore why African American	Qualitative	Focus groups	African Americans
Maslow et al.		women have low enrolment rates in	research		
(2014) [40]		clinical trials.	approach		

Irvine et al. (2017) [41]	UK	To listen to people with Chinese backgrounds about their experiences of personalization.	Phenomenology	Semi-structured interviews and focus groups	UK residents with a Chinese background
Isler et al. (2015) [42]	USA	To describe a CBPR approach with Black youths aged 18 to 30.	CBPR	Research Literacy Workgroup group discussions on a regular basis	Black Americans
Knifton (2012) [44]	Scotland	To explore mental health stigma with the three largest ethnic minority communities (Pakistani, Chinese and Indian ethnic minority) groups in Scotland.	CBPR	Focus groups	Minority communities with a Pakistani, Chinese, or Indian heritage
Lee et al. (2016) [47]	USA	To design a pilot intervention and develop the leadership capacity of grassroots community members based on their own experiences with behavioural health issues.	CBPR	Biweekly meetings in which creative methods are used	Cambodian American women, Cambodian-born refugees, American-born children of refugees, immigrants from Cambodia
McDavitt et al. (2016) [54]	USA	To identify strategies for facilitating two-way dialogue and the development of trust with communities to gain a better understanding of the findings and to explore the implications of culturally relevant interventions and public policy.	CBPR	Participatory observations and evaluation meetings with community advisory board	Black men and women living with HIV
Redwood et al. (2012) [65]	UK	To explore the intersections of faith, culture, health, and food to generate evidence for addressing cultural difference in the design and provision of health services.	Qualitative research approach	Rangoli workshop	South Asian women
Wang-Letzkus et al. (2012) [82]	USA	To share culturally competent strategies and lessons learned from a	CBPR	Focus groups, questionnaires,	Chinese American elderly people

		study that used a CBPR approach with		meetings, and			
		elderly diabetic Chinese Americans.		presentations with CAB			
Citizens who are insecurely housed (n=2)							
Reference	Country		Study approach	Study method	Citizens involved		
Van Draanen et al. (2013) [79]	Canada	To investigate the factors that facilitated the meaningful inclusion of Caucus members in research and service planning from the perspectives of Caucus members and project stakeholders.	Qualitative research approach	Document review, interviews, focus groups	Caucasian members, people with lived experience of homelessness and/or mental health issues		
Pakhale et al. (2016) [61]	USA	To describe the processes utilized in citizen or patient engagement research through a tobacco dependence management project with the inner-city population in Ottawa, Canada.	CBPR	Weekly meetings with peer researchers	Community members with current or past experience of drug use, current or ex-tobacco smokers who are/were homeless or insecurely housed		
Citizens with a	migration stat	us (n=13)					
Reference	Country		Study approach	Study method	Citizens involved		
Alzubaidi and Marriott (2014) [3]	Australia	To investigate Arabic-speaking immigrants' views and beliefs about diabetes, the use of medicines, health care-seeking behaviours, and their needs and preferences.	PPI	Interviews and semi- structured interviews	Arabic-speaking immigrants		
Alzubaidi et al. (2017) [4]	Australia	To explore preferences among Arabic- speaking migrants with type 2 diabetes in Melbourne, Australia.	PPI	Interviews and semi- structured interviews	Arabic-speaking immigrants		
Brugge et al. (2010) [17]	USA	To compare three case examples of CBPR that differ in terms of community and involvement.	Qualitative comparative analyses	Secondary document analysis	(1) Chinese immigrants living in or attending school or clinics in Boston's Chinatown, (2) Public housing residents, including immigrant residents, (3)		

					community members of Boston's Chinatown
Cyril et al. (2017) [23]	Australia	To explore the barriers to and facilitators of the participation of culturally and linguistically diverse communities in the existing obesity prevention services in Victoria, Australia.	Qualitative research approach	Nominal group technique	Vietnamese, Burmese, African, Afghani, and Indian Australians living in disadvantaged areas
De Freitas and Martin (2015) [25]	The Netherlands	To examine the factors that influence minority service-users' decisions to get involved and stay engaged through a study of a successful mental health advocacy project hosted by a Dutch user organization.	Qualitative research approach	Interviews, observations, document analysis	Cape Verdean migrants
Dingoyan et al. (2012) [30]	Germany	To provide information about attitudes towards health research studies as well as to identify potential barriers to and solutions for the successful recruitment of individuals with Turkish migration backgrounds into health research studies.	Qualitative research approach	Focus groups	German residents with a Turkish migration background
Loignon et al. (2018) [48]	Canada	To support knowledge co-construction and translation with respect to frontline care and services by engaging underserved or Aboriginal people with low literacy skills in the research.	Participatory research	Meetings	People who are illiterate people, immigrants who have difficulty expressing themselves in French or English, and people with multimorbidities
Lionis et al. (2016) [49]	Several European countries	To explore whether the available guidelines and training on communication regarding cross-cultural care initiatives make sense to migrants and other key stakeholders.	PLA	Focus groups	Migrants using local primary care services

O'Reilly-De	Ireland	To reflect on the use of formal versus	PLA	PLA-style focus groups	Migrant service users with limited
Brún et al.		informal interpreters in PLA studies.			English proficiency
(2015) [59]					
O'Reilly-De	Ireland	To describe PLA methodology, the	PLA	PLA-style focus groups	Immigrants from Russia, Nigeria,
Brún et al.		mode of engagement, and techniques			Poland, Pakistan, Democratic
(2016) [60]		used for enhancing migrants' access to			Republic of the Congo, Portugal,
		and engagement in the research			Nigeria
		process, and to report their evaluation			
		of engagement.			
Renzaho	Australia	To develop a community engagement	CBPR	African Review Panel	Culturally and linguistically diverse
(2017) [66]		framework to improve childhood		(ARP)	migrant communities
		obesity prevention among migrants.			
Shirazi et al.	USA	To determine the knowledge,	CBPR	Interviews	Immigrant Muslim Afghan women
(2013) [71]		attitudes towards, and sources of			
		information regarding breast health			
		care and to identify specific religious			
		and/or social barriers for Muslim			
		Afghan women immigrants to seeking			
		care.			
Woodward-	Australia	To explore: i) the perceptions and	Qualitative	Interviews and focus	Older Italian migrants
Kron et al.		experiences of the medical system and	research	groups	
(2016) [84]		medical research of CALD patients; ii)	approach		
		the views of research professionals on			
		CALD patient participation in medical			
		research; and iii) to inform the			
		development of a multimedia			
		resource for medical research and			
		clinical trials.			
Citizens with a	low socioecon	omic position (n=2)			
Reference	Country		Study approach	Study method	Citizens involved

Marinescu et al. (2013) (2013) [52]	USA	To describe how CBPR methods are used for developing and evaluating the Be Active Together intervention.	CBPR	Meetings and focus groups	Low-income Somali-, Vietnamese-, Khmer-, and English-speaking residents
Stewart (2015) [75]	Scotland	To understand the perspectives of young adults on local practices of public involvement in a socioeconomically deprived area of Scotland.	Qualitative research approach	Interviews	Young adults (18–25 years old) living in a socioeconomically deprived area of Scotland
Citizens living in	n divers vulnera	ble circumstances, divers (n=6)			
Reference	Country		Study approach	Study method	Citizens involved
Kaiser et al. (2017) (2016) [43]	USA	To describe the origins, participants, processes, and outcomes of a community advisory board comprised solely of lay stakeholders that brings the voices of rarely heard groups into the research enterprise.	Evaluation		People with challenging life experiences, including poverty, homelessness, long-term underemployment, and chronic health problems
MacFarlane et al. (2017) [51]	Ireland and USA	To analyse the use of World Cafés as a participatory method for research prioritization with marginalized communities in Ireland and the USA.	Comparative analysis of two cases	Observations and World Cafés	Ireland: English-speaking migrants, Irish Travellers, women who had experienced domestic violence, people with disabilities, and people living in poverty. USA: Bhutanese Chinese and Karen refugees and Latin American immigrants
Montesanti et al. (2016) [57]	Canada	To better understand how health service organizations carry out participation initiatives with marginalized populations.	Qualitative comparative analyses of four cases	Key informant interviews with community health workers and secondary document analyses	<ul><li>(1) Low-German speaking</li><li>Mennonite farming populations,</li><li>(2) newcomers and immigrants,</li><li>(3) elderly immigrant</li><li>francophones', and (4) women</li><li>who are refugees</li></ul>
O'Donnell et al. (2016) [58]	Ireland	To involve members of marginalized groups in the development of local	PLA	PLA-style focus groups	Migrants, homeless people, Irish Travellers, drug users, sex

		primary care services in Ireland by incorporating their views about priority areas for action.			workers, young mothers from deprived areas
Ryan et al. (2017) [68]	UK	To explore whether there are core components of good care that apply across different populations and conditions.	Qualitative research approach	Focus groups	Migrant workers, Irish Travellers, young men, illegal drug users, people with long-term health conditions, learning-disabled people, and elderly who meet for educational and cultural activities through the University of the Third Age
Snow et al. (2018) [72]	Canada	To develop a heuristic model to assist planners to engage patients who are not traditionally included in healthcare planning.	Qualitative research approach	Literature review, interviews, focus groups	Women who were pregnant and/or new parenting mothers affected by substance use and/or violence; new immigrants to Canada; and Indigenous people who had a history of incarceration
Refugees (n=4)					
Reference	Country		Study approach	Study method	Citizens involved
Hayley et al. (2013) [39]	USA	To describe the process used and results derived from implementing the university/WRAP collaborative adaptation of the Eat Walk Sleep healthy living curricular tool.	Community- engaged approach	Meetings, qualitative pilot sessions, pilot workshops	Community advisors from four ethnic groups from Burma: Karen, Karenni, Kacin, and Chinese
Martzoukou and Burnett (2018) [32]	Scotland	To explore the nature of information provided to Syrian refugees and the emerging information needs and barriers they experienced during their initial phase of resettlement and adaptation in a new sociocultural environment.	Qualitative research approach	Interviews and focus groups	Syrian new to Scotland

Riggs et al.	Australia	(1) To report on the steps that were	CBPR	Community	Afghan women and men
(2015) [67]		taken in developing the Having a Baby		researchers: meetings,	
		in a New Country project; (2) to		training; Community	
		describe the challenges and ethical		advisory group:	
		dilemmas associated with		meetings; Community:	
		implementing community and health		focus groups and	
		service engagement strategies; and (3)		interviews	
		to reflect on lessons learned from the			
		study.			
Quinn (2013)	Scotland	To investigate the different beliefs	PAR	Focus groups	Asylum seekers from a range of
[63]		regarding and attitudes to mental			countries including Somalia,
		health problems among the asylum			Eritrea, Pakistan, Iran, Iraq, China,
		seeker and refugee population in			and Sri Lanka
		Glasgow.			

**Notes:** CBO = community-based organization, CBPR = community-based participatory research, PPI = public and patient involvement, PLA = participatory learning in action, PAR = participatory action research